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1 [An efficient B-tree layer implementation for flash-memory storage systems](#)



Chin-Hsien Wu, Tei-Wei Kuo, Li Ping Chang

July 2007 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 6 Issue 3

Publisher: ACM Press

Full text available: [pdf\(360.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the significant growth of the markets for consumer electronics and various embedded systems, flash memory is now an economic solution for storage systems design. Because index structures require intensively fine-grained updates/modifications, block-oriented access over flash memory could introduce a significant number of redundant writes. This might not only severely degrade the overall performance, but also damage the reliability of flash memory. In this paper, we propose a very differe ...

Keywords: B-tree, Flash memory, database systems, embedded systems, storage systems

2 [A coherent distributed file cache with directory write-behind](#)



Timothy Mann, Andrew Birrell, Andy Hisgen, Charles Jerian, Garret Swart

May 1994 **ACM Transactions on Computer Systems (TOCS)**, Volume 12 Issue 2

Publisher: ACM Press

Full text available: [pdf\(3.21 MB\)](#) Additional Information: [full citation](#); [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Extensive caching is a key feature of the Echo distributed file system. Echo client machines maintain coherent caches of file and directory data and properties, with write-behind (delayed write-back) of all cached information. Echo specifies ordering constraints on this write-behind, enabling applications to store and maintain consistent data structures in the file system even when crashes or network faults prevent some writes from being completed. In this paper we describe ...

Keywords: coherence, file caching, write-behind

3 [Algorithms and data structures for flash memories](#)



Eran Gal, Sivan Toledo

June 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 2

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